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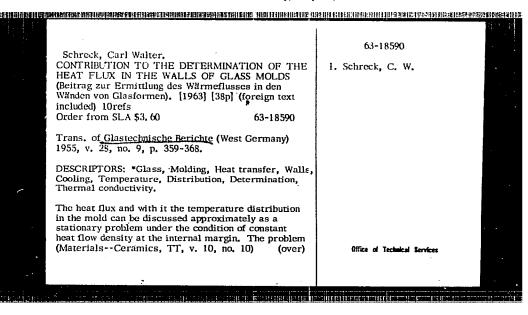
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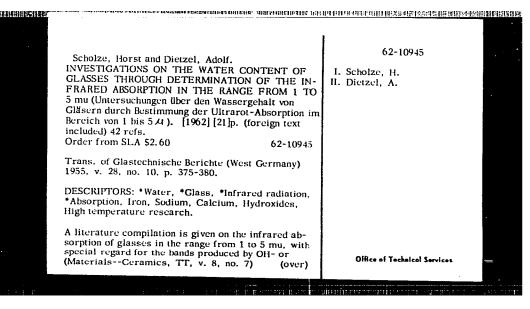
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The Fundamental Reactions in the Process of Fusion of Sulphate Glass, by C. Kroger, E. Vogel.

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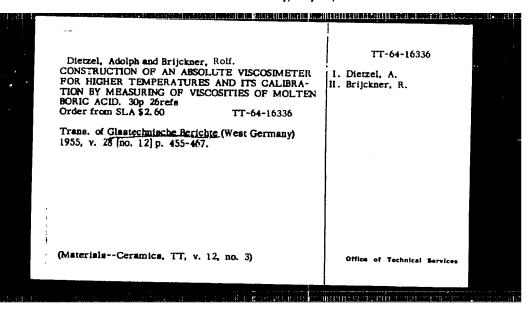
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On the Dissipation of Heat in Glass at High Temperatures, Pt. 3, by W. Geffcken.

GERHAM, Por, Glastech Ber, Vol XXIX, No 2, 1955, pp 42-49.

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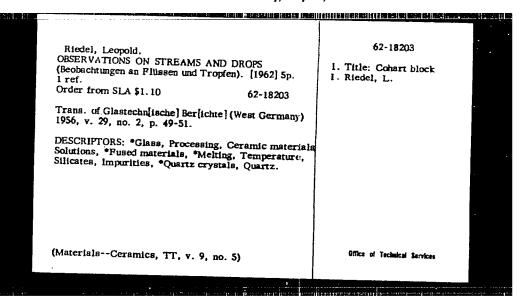
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Electron Hicroscope Investigations on Weathered Glass Surfaces, by F. Oberlies.

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The Structure at the Edge of Water Droplets in Contact with Glass and Its Significance, by Hans Jebsen-Marwedel, 8 pp.

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Witten, Johannes Loeffler.
TESTING OF SHRET GLASS FOR SENSITIVITY TO
CLIMATE. [1962] 16p. (5 figs. 21 refs. omitted).
Order from SLA \$1.60 62-14499

Trans. of Glastechn[ische] Ber[ichne] (West Germany) 1956, v. 29, no. 4, p. 131-137.

DESCRIPTORS: \*Glass, Sensitivity, \*Climatic factors, Test methods.

Sheet glass is decomposed by moisture only in its packing, either by wet rain or when stored in moist rooms. Two types of decomposition appear as damages, which show, however, the same technical course and produce the same typical defect, the so-called dulling, which is absence of reflection by chemical changes in the top layer. The testing method described here reproduces, in contrast to all other methods, the defect (Materials--Ceramics, TT, v. 8, no. 1) (over)

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I. Witten, J. L.

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GERMAN, per, Glastoch Ber, 1956, Vol XXIX, No 4, pp 137-144.

BLA 59-10617

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Introduction to the Fundamentals of Glass Structure, by Otto W. Florke, Lothar H. Lehnert, Horst Scholze, 19 pp.

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[1962] [36]p. (foreign text included) 9 refs.
Order from SLA \$3. 60

Trans. of Glastechn[ischel Ber[ichtel (West Germany) 1956, v. 29, no. 5, p. 174-183.

DESCRIPTORS: \*Glass, Melting, \*Heat exchangers, Heat of fussion. Tanks, Numerical analysis, Curve fitting, Periodic variations, \*Fuel consumption, Gas generating systems, Specific heat, Aging.

(Materials--Ceramics, TT, v. 9, no. 3)

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Baier, Ernst, Schefer, Werner, and Steinwehr
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BY IRON (ther die Fürbung von Boraxgläsern durch
Eisen). [1962] [15] p. (foreign text included) 15 refs.
Order from SLA \$1.60

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Trans. of Glastechn[ische] Ber[ichte] (West Germany)
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DESCRIPTORS: \*Glass, \*Borax, \*Iron, \*Color, Spectrographic analysis.

The authors were able by metal-addition to obtain pure ferro-borax glasses, and to demonstrate their ferrifreedom chemically and optically. Production and testing are described, and some spectral permeability curves are reproduced. The visual color of the pure ferro-glasses was blue. (Author)
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Origin and Tasks of the Glass Division of the State Materials Testing Station in Darmstadt, by Heinrich Wiegand, 20 pp.

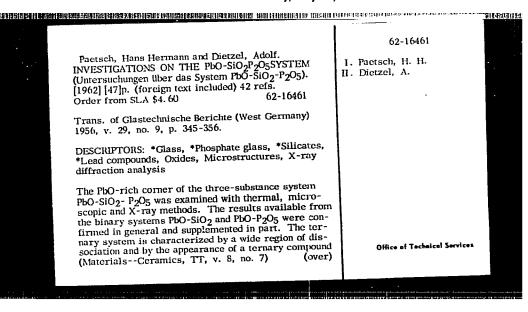
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FOR HOLLOW GLASS VESSELS (Entwicklung von Normprüfverfahren für Hohlglasgefässe). [Paper	II. Title: Glass	
presented) at the Glass Technology Meeting (no. 30) Tübingen, 16 May 56. (foreign text included) 14 refs.		
Order from SLA \$1.60 62-14869		
Trans. of Glastechnische Berichte (West Germany) 1956, v. 29, no. 8, p. 314-318.		
DESCRIPTORS: *Glass, Containers, Test methods, Standards, Quality control, *Pressure vessels, Materials.		
(Materials, TT, v. 8, no. 4)		
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Wetting Properties and Mechanical Strength of Glass to Metal Seals, by W. Weiss.

GERMAN, per, Glastech Ber, Vol XXIX, No 10, 1956, pp 386-392.

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Heats of Solution and Formation of Sodium Silicates, by C. Kroger, G. Kreitlow,

GERMAN, per, Clastechnische Berichte,
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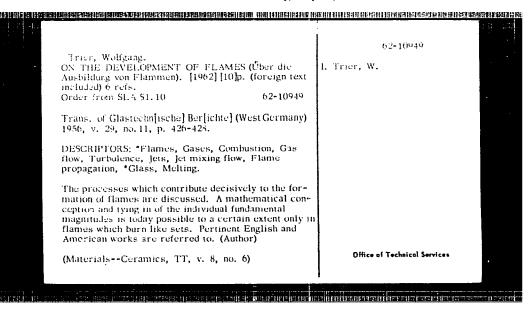
Flame Studies; Methods and Results, by Rudolf Gunther, 37 pp.

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The Examination of the Breakage Process with Supersonic Techniques, by Frank Kerkhof, Helmut Dreizler, 46 pp.

GERMAN, per, Glastech Ber, 1956, Vol XXIX, No 12, pp 459-470.

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On the Structure of Quartz Glass, by F. Oberliss, A. Dietrel,

GERMAN, per, Glastechnische Berichte, Vol XXX, No 2, pp 37-42. 1957

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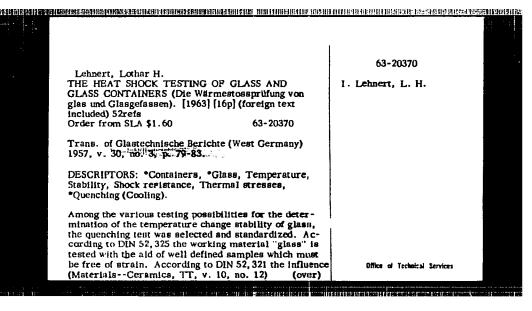
On the Velocity, Mechanism and Formation of New Phases of Solid State Reactions in Melting, by Carl Kroger, 34 pp.

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Riedel, Leopold.

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Hüttentechnische Vereinigung der Deutschen Glasindustrie, Bad Neuenahr, 12 Oct 56. [1962] [10]p. (foreign
text included) 10 refs.
Order from SLA \$1.10 62-18134

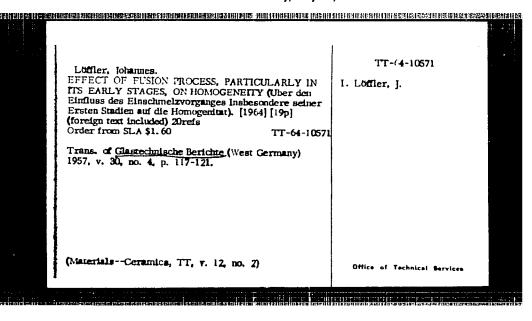
Trans. of Glastechnische Berichte [West Germany) 1957,
v. 30, no. 4, p. 113-115.

DESCRIPTORS: \*Glass, \*Mixtures, Distribution, Test
methods.

Methods of testing homogeneity of mixtures, especially
with cullet, are discussed, and ways of further separating the portions insoluble in water and acid are
illustrated. (Author)
(Materials--Ceramics, TT, v. 9, no. 4)

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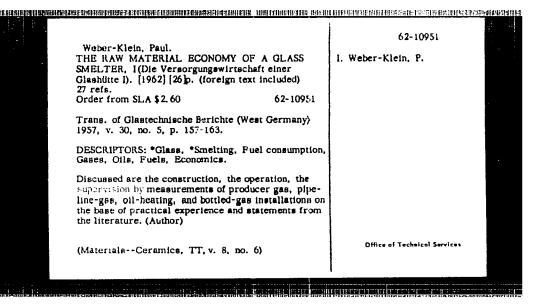
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A Method for Combined Microscope and X-Ray Examination of Stones in Glass, by Nina Koppen, Otto W. Florke, 11 pp.

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The Specific Exat of a Barium Glass, by H. Hantmann, K. H. Kiesaling, 10 89.

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Dietzel, Adolph and Deeg, Emil.

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Order from SLA \$1.60 62-18108

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1957, v. 30, no. 7, p. 282-287.

DESCRIPTORS: \*Glass, Dynamics, Crystal structure, Model tests, Tensile properties, \*Fused materials, Dioxides, Silicon compounds, Polarization, Ions, Mechanical properties, Stresses.

(Materials--Ceramics, TT, v. 9, no. 3)

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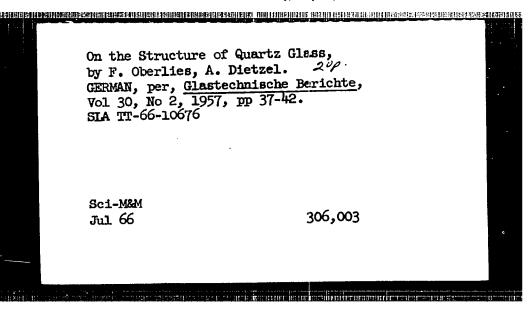
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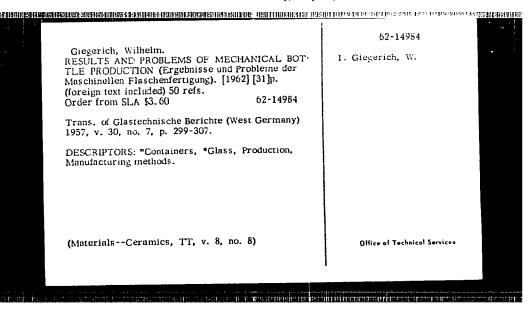
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Vol. 29, No. 12, 1956, pp. 483-487.
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Development of Glassmelting Pot Purnaces, by Rudolf Gunther, Wolfgang Trier, Karl Heing Theissl, 39 pp.

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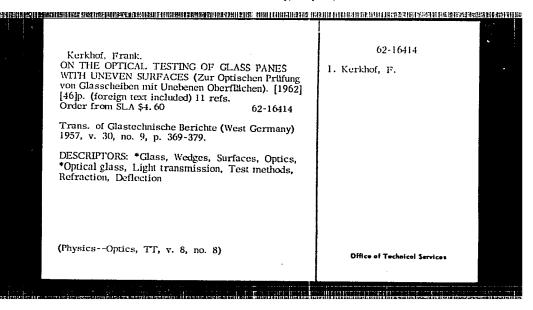
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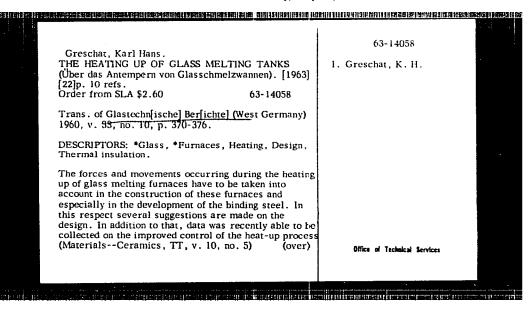
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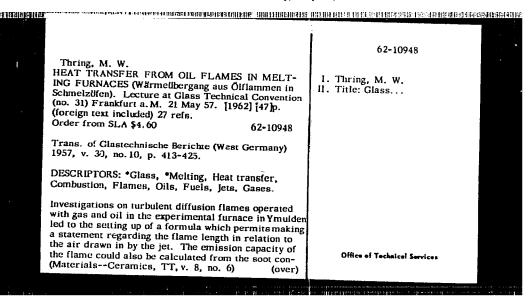
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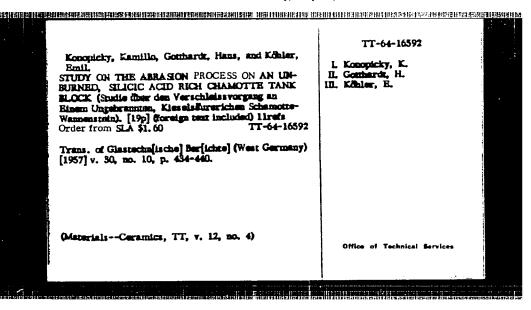
Zircon Bricks as Fireproof Building Material for Glass Melting Furnaces, by Edward Steinhoff, 39 pp.

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Kuhn, Peter and Schimmel, Gerhard.

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Trans. of Glastechnische Berichte (West Germany) 1957, v. 30, no. 11, p. 463-470.

DESCRIPTORS: \*Glass textiles, \*Synthetic fibers, \*Electron microscopy, Separation, Microanalysis, Gases, Selenium, Quartz, Lead, Pibers.

Very thin glass fibers were studied microscopically, directly without recourse to a replica process.

During the irradiation, extremely thin fibers developed (for quartz glass with diameters below 15 A. u.) which however could be picked-up unobjectionably. (Materials--Ceramics, TT, v. 7, no. 5) (over)

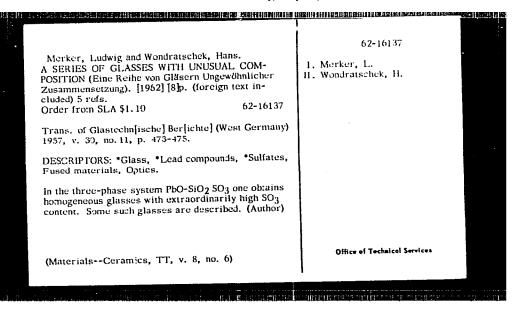
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ULTRASONIC TESTING OF CAST IRONS WITH
LAMINAR AND SPHEROIDAL GRAPHITE FORMATION. I. Patterson, W. II. Bodmer, F. [1962] [16]p. 20 refs. Order from SLA \$1.60 62-14424 Trans. of Giesserei. Technische-Wissenschaftliche Beihefte (West Germany) 1957, no. 17, p. 909-917. DESCRIPTORS: \*Non-destructive testing, \*Ultrasonic radiation, Velocity, \*Cast iron, \*Graphite, Elasticity, Shear stresses. Ultrasonic speed measurements were made for both longitudinal and transverse waves in test pieces of cust iron with differing textural formations. From the different speeds recorded it is possible to differentiste between a laminar and spheroidal graphite formation. (Metallurgy--Ferrous Metals, TT, v. 10, no. 2) Using the same measurements it is possible to make an approximation of the modulus of elasticity in shear and Office of Technical Services in tension, and Poisson's ratio. (Author)

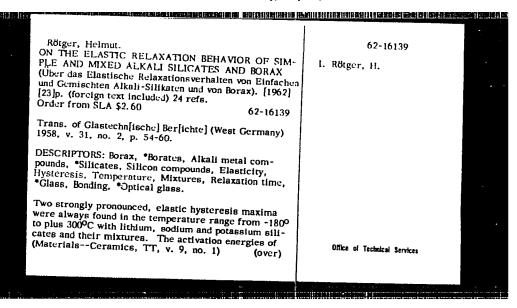
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Flame-Photometric Aluminum Determination in Glass, by Friedrich Hegemann, Walter Hert, Wolfgang Schmid; pp.

GERMAN, per, Glastech Ber Vol XXXI, No 3, 1958, pp 81-84.

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Analysis of the Teage of a Fracture in Flat Glass, by Mana Johnen-Wallelel, 5 pp.

GERMAN, per, Glastech Ber, Vol XXXI, No 3, 1958, pp 93, 94.

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Potermination of the Viscosity-Semperature Curve With the Aid of Two Fixed Points, by Oscar Knapp, 3 pp.

GERMAN, per, Glastech Her, Vol MIXI, No 3, 1958, pp 94, 95.

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The Absorption Spectra of y -Irradiated Quartz Glasses and Amethyst and Their Changes on Trippenission of Electric Current, by J. Lietz, H. Musamberg, 12 pp.

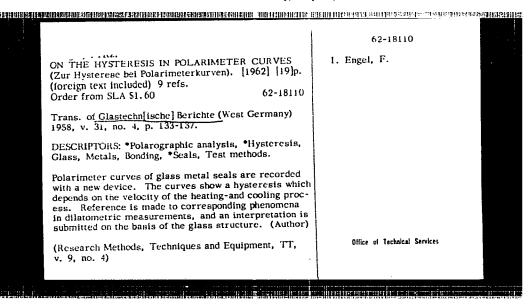
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APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180018-5

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Lehnert, Lothar H.

INVESTIGATION OF STRESSES IN HOLLOW GLASS
VESSELS (Über die Spannungsprüfung von
Hohlglasgefassen). [1962] [14]p. (foreign text included) 3 refs.
Order from SLA \$1.60

Trans. of Glastechn[ische] Berichte (West Germany)
1958, v. 31, no. 5, p. 176-179.

DESCRIPTORS: \*Pressure vessels, Walls, Photoelasticity, \*Glass, Stresses, Model tests, Light
transmission, Refractive properties.

(Materials--Ceramics, TT, v. 9, fo. 3)

Office of Technical Stroices

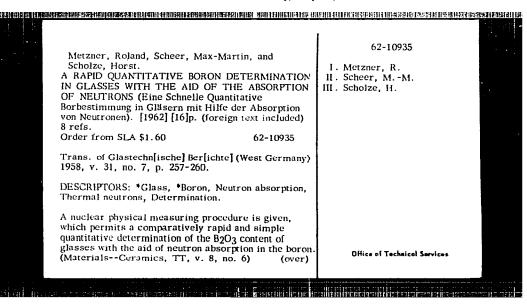
The Heat Requirement of Silicate (lags Formation, by Carl Kroger, Wilhelm Janetzko, Kreitlow, 28 p.

GERMAN, per, Glastechnische Berichte, 1958, Vol XXXI, No 6, pp 221-228.

BLA 59-10937

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Diffusion Process About Sand Grains, by J. Loffler.

GERMAN, per, Glasstechnische Berichte, Vol XXXI, 1958, pp 260-269.

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by Johannou Leeffler. 5 pp.

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SLA 59-10938

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Sound Insulation of Chasses and Chasinz (11) Permanently Built-In Windows of Single Charing, by A. Risenberg.

经分别的证据,我们可以是一个人的现在分词,我们的现在分词,我们的一个人的人,我们就是一个人的人,我们就是一个人的人的,我们就是一个人的人的人,我们就是一个人的人

WEIHAN, por, Clastechnische Berichte, Vol HEMI, No 8, 1958, pp 297-302.

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Rhythmic Precipitation on Glass Through Delayed Diffusion (Liesegang Rings), by Hans Jebsen-Marwedel, 14 pp.

GERMAN, per, Glastech Ber, 1958, Vol XXXI, No 8, pp 311-315.

BLA 59-10939

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THE UNIFLOW CONTINUOUS GLASS MELTING
FURNACE (Der Uniflow-Wannen-Ofen). [1962] [19]p.
(foreign text included) 4 refs.
Order from SLA \$1.60 62-10946

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1958, v. 31, no. 9, p. 349-353.

DESCRIPTORS: \*Glass, Melting, Production, Oilburning furnaces, Fuel consumption.

Construction and working method of the Uniflow continuous glass melting furnace is explained. This furnace type is suitable above all for medium size units;
it is shown that it fulfills the requirements to be sox
a good melting furnace to a high degree. (Author)

(Materials--Ceramics, TT, v. 8, no. 6)

Kerkhof, Frank and Manitz, Gerhart.
FRACTURE TRACING BY INTERFERING ULTRASOUND WAVES (Bruchzelchnung durch Interferierende
Ultraschellweilen). [1962] [18]p. (foreign text included)
3 refs.
Order from SLA \$1.60

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1958, v. 31, no. 10, p. 377-731.

DESCRIPTORS: \*Glass, \*Fracture (Mechanics),
\*Ultrasonic radiation, \*Acrylic resins, Elasticity,
Brittle meterials, Ultrasonics.

(Materials--Ceramics, TT, v. 8, no. 6)

Office of Technical Services

Silk-Screening; A Decorating Process for Glass, by Kurt Beversdorfer, 30 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXI, No 10, 1958, pp 386-394.

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Infra-Red Bands in Freshly Propered and Weathered B<sub>2</sub>O<sub>3</sub> Class, by R. Bruckner, H. Scholze.

CHEMAN, par, Clastechnische Berichte, Vol XXXI, 1958, pp 417-422.

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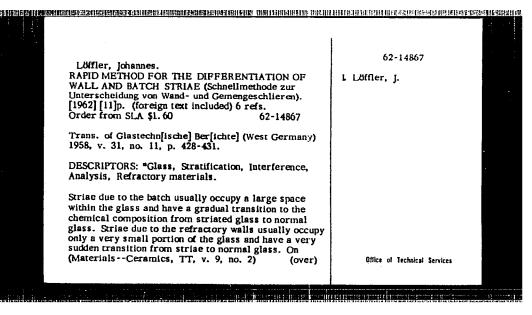
Electrical Surface Conductivity of Glass Fibers, by W. Hins, 13 p.

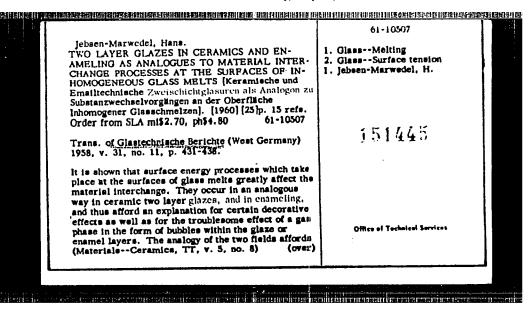
GERMAN, per, Glastech Ber, 1958, Vol. XXXI, No. 11,

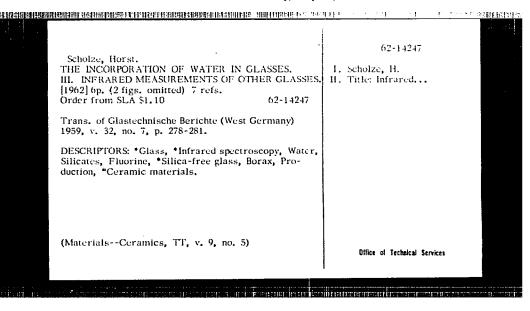
Ipp 422-428.

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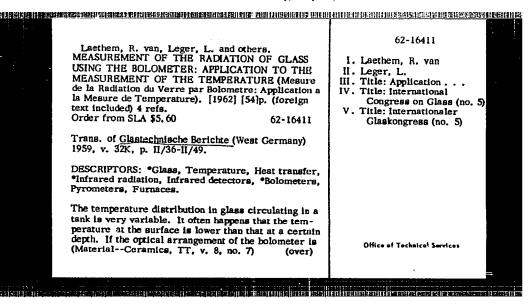
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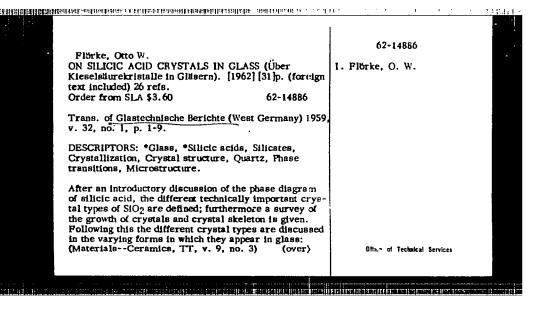


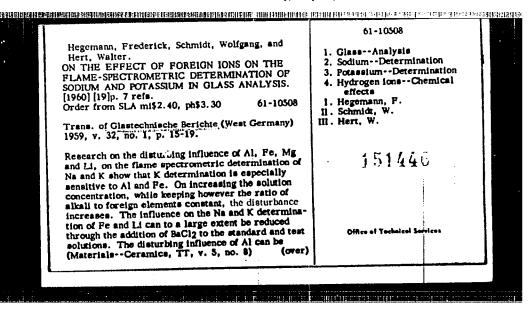




**对国国民国门第四部15月18日全国国民国民党和共和党**国际区域的国民党和国民党和国民党的国际的国际、国际的国际公司,由于国际国际国际的国际公司,但是多名的支持,他对于国际的国际工程, 62-16410 AIR COOLING OF GLASS MOLDS (Luftkühlung von Glasformen). [1962] [27]p. (foreign text included) I. Wille, R. II. Title: International Congress on Glass (no. 5) 9 refs. 62-16410 III. Title: Internationaler Order from SLA \$2.60 Glaskongress (no. 5) Trans, of Glastechnische Berichte (West Germany) 1959, v. 32K, p. 11/26-11/32. DESCRIPTORS: \*Glass, Molding, Heat transfer, Air cooled, Cooling. The report summarizes experiments dealing with the transfer of heat from the outside wall of a glass mould to the cooling air. The experiments were performed with stationary, heated models corresponding to average working moulds in dimensions, heat loading and temperatures. The cooling air energy was studied for smooth moulds and circular jets by varying the proposition of the left to be reported by the respective in addition to quantity of air and the jet velocity. In addition to (Materials--Ceramics, TT,v. 8, no. 7) (ov Office of Technical Services







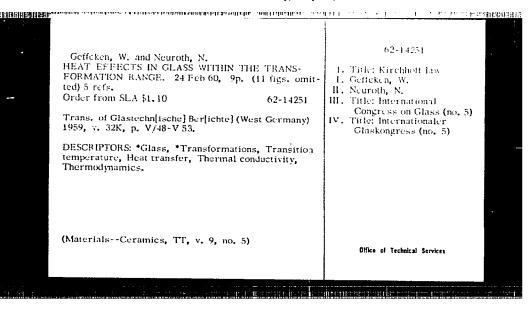
Kessler, W. and Scheibe, G.
SPECTRUM ANALYSIS METHODS, THEIR ACCURACY, AND THEIR APPLICATION TO GLASS. 1 Apr 60, .6p. (8 figs. omitted) 27 refs.
Order from SLA \$1.60 62-14250

Trans. of Glastechn[ische] Ber[ichte] (West German)) 1959, v. 32K, p. 1/33-1/40.

DESCRIPTORS: Glass, Spectrographic analysis, Aluminum compounds, Iron compounds, Oxides, Sheets, Electrodes, Errors, X-rays, Fluorescence, Optics.

After an historical review of emission spectrography the general basis of this analytical method is discussed. The various sources of error are then described, and it is shown how these can be eliminated by applying suitable principles of measurement. It has been found that the main source of error in applying this method to the (Materials--Ceramics, TT, v. 9, no. 5) (over)

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Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 2, p. 41-47.	
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Buss, Withelm and Reumuth, Horst.
PROGRESS MADE IN THE MICROSCOPIC RESEARCH ON GLASS SMELTING PROCESSES AT TEMPERATURES UP TO 1, 600°C (Fortschrine in der Microscopischen Erforschung von Glasschmalzvorgungen bei Temperaturen bis 1600°C). [1960]
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(Materials--Ceramics, TT, v. 5, no. 8)

Office of Technical Services